



# SC Million Solar Roofs Initiative



Winter 2005

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## Partners Meet to Move Efforts Forward

The South Carolina Million Solar Roofs Partnership was busy in recent months, with two meetings covering an array of topics.

A meeting in October at York Technical College was attended by 23 Partners from across the state. Robert Kosak of the Alternative Energy Center at the college, showed off the new Model Home demonstration unit containing solar water heating technologies, photovoltaic lighting, and an example of optimum array orientation. Dr. Kosak also pre-

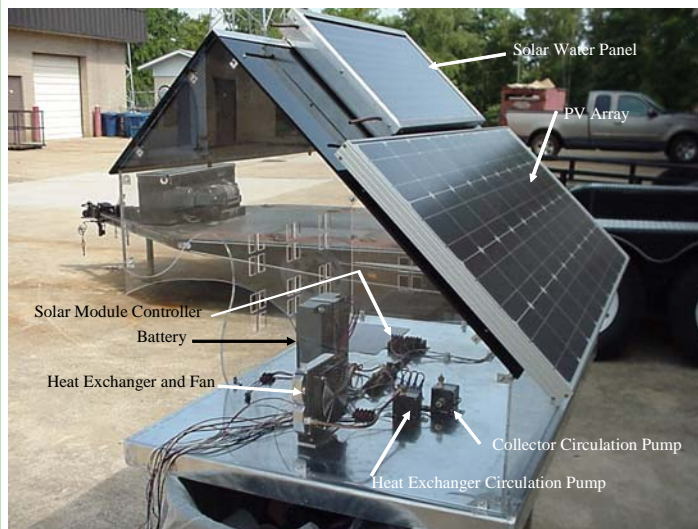
tages for the association to affiliate with the SCGBC. A follow-up meeting was scheduled at Furman University to charter a South Carolina solar organization and make a determination as to national affiliation.

SCEO staffer Sonny DuBose presented the EarthCraft House program the Energy Office has been promoting. SCEO has taken a leadership role in implementing EarthCraft, in partnership with the Greenville and Charleston Home Builders Associations and Southface Energy Institute. SCEO is promoting and assisting with the installation of solar water heating systems in EarthCraft Homes.

At the council meeting at Furman University in Greenville, following extensive work on behalf of the review committee, it was concluded that the council/association should seek national affiliation with the American Solar Energy Society (ASES). Also, by unanimous vote, the membership established that the association would be henceforth known as the South Carolina Solar Council (SC<sup>2</sup>).

Frank Powell of Furman University was selected to lead the membership development committee that will notify the SC MSRI members of the establishment of the South Carolina Solar Council (SC<sup>2</sup>) and solicit memberships. Affiliation acceptance with ASES should occur early in 2005. Fletcher Mann, a Greenville attorney, is chairing the by-laws committee.

The next meeting is scheduled for Thursday, February 10, 2005 at Furman University, 11:00 am - 2:30 pm. If you plan to attend, or consider membership, please contact Mr. Jean-Paul Gouffray (1-800-851-8899) at the South Carolina Energy Office. Your participation and suggestions are extremely important to the success of the SC Million Solar Roofs Partnership.



*Model solar home produced by York Technical College for the South Carolina Energy Office.*

sented the solar exhibit material included in the Solar Road Show developed for the SC Energy Office (SCEO) and the Partnership. The Solar Road Show is available for demonstration to any group interested in learning more about solar possibilities in the home.

Jean-Paul Gouffray of the SCEO staff presented the need to develop a SC Solar Council/Association, which the attending members supported. The idea of combining the Solar Council with the South Carolina Green Building Coalition (SCGBC) was proposed. A review committee, chaired by Tone Nichols of Table Rock Technologies, was formed to determine how best to get a solar organization in place and determine if there are any advan-

## Southeast Partners Share Successes

The Southeast Million Solar Roofs Initiative Regional Peer Exchange was held in October in Biloxi, MS. Partners represented South Carolina, North Carolina, Georgia, Mississippi, Florida, Kentucky, Tennessee and Alabama. There was also representation from the Interstate Renewable Energy Council (IREC).

Members were given an update from Regional Director Dwight Bailey. He mentioned that the name "MSR" may change; however, nothing has been decided so far. Bailey announced that state applications for federal grant awards were still being reviewed. Bailey also encouraged all of the regions to come together for one common goal. Suggested goal subject matter included a way to target affordable housing, solar in schools, and a certified training program for installers.

The host state, Mississippi, was the Partnership highlight. Kenneth Calvin, Director of the Mississippi Energy Office, gave the following highlights:

- \* Mississippi has a Multifamily Housing Demonstration project, where homes are being built with solar water applications. They plan to have 500 homes completed by 2010;
- \* The Ag Museum, which features a corn-burning heating system, warming nearly 8,000 square feet of meeting space; and
- \* The Mississippi Solar Society.

Other agenda items were:

- LEED (Leadership in Energy and Environmental Design) presentation from Jeff Ross-Bain, Southface Energy Institute, Atlanta, GA;
- Solar in Schools presentation, Larry Sherwood, Interstate Renewable Energy Council (IREC);
- Department of Transportation public relations campaign promoting the use of solar signs along roadways, D'Juana Wilson, SC Energy Office;
- Draft presentation to State Energy Office directors on a regional solar water plan, Dwight Bailey; and
- Presentations and discussions by the Partners of the Solar Hot Water Regional Plan, Phase II.

Attendees also enjoyed a solar farm tour by owner Sammy Germany.

Henry Cato of the Mississippi Development Authority gave a presentation on the "Momentum Community Demonstration Program." The purpose of this program is to facilitate community development and economic growth by focusing on individual communities' self-improvement. The ultimate goal is to help Mississippi promote positive, livable communities for all Mississippians, and create a better place for families to rear their children, and ultimately live long and fruitful lives.

For more information on solar technology in Mississippi, go to page 4.

## Information to Keep You "In the Know"

The Florida Solar Energy Center has just released its first edition of The Energy Chronicle. It is their new online quarterly newsletter and can be accessed by going to <http://www.fsec.ucf.edu/echronicle/>. The subscription is free.

Following are some items discussed in this edition:

- Hurricanes Keep Workers Busy with Solar-Power Disaster Relief Efforts
- Florida SunSmart Schools Use Ample Supply of Sunshine to Light Classrooms and Spark Imaginations
- Dr. David Block: Hydrogen Technologies — Facts and Myths
- California Governor Announces Program to Bring Photovoltaic Systems to One Million Homes
- Ford Fuel Cell Vehicles in Florida

## Update of the Solar Installations Database

The South Carolina Energy Office (SCEO) has recently updated the inventory database of solar installations throughout South Carolina. Under the Million Solar Roofs Initiative (MSR), the Department of Energy (DOE) has a national goal of one-million solar systems to be operational by 2010. As a participant in MSR, South Carolina's goal is to encourage the placement of 500 solar systems in South Carolina by 2010. To date, 81 installations have been certified, representing 16 percent of the South Carolina goal.

To view South Carolina's current solar inventory, visit the web site at [www.energy.sc.gov](http://www.energy.sc.gov). Click on Sustainability and Renewable Energy and follow the link to Solar Installations in South Carolina.

Note: If you see any opportunities for corrections, additions or deletions of solar systems in South Carolina, please bring them to the attention of Jean-Paul Gouffray at [jpgouffray@gs.sc.gov](mailto:jpgouffray@gs.sc.gov) or by calling at (803) 737-8038.

**Please visit our website at**  
**[www.energy.sc.gov](http://www.energy.sc.gov)**  
***Click on the***  
***Sustainability and Renewable***  
***Energy***  
***link.***

## **Our Partners Make Us Strong**

There is talk throughout this brief about MSRI "Partners." So, just who are these Partners? They are business associates, technically-minded people, and homeowners, who are interested in renewable energies and the environment. Following is a listing of the current membership of the South Carolina Million Solar Roofs Initiative:

Dwight Amick  
Mid-Carolina Electric Cooperative, Lexington, SC

Cheryl Anderson  
Homeowner, Florence, SC

Greg Baer  
SunQuest, Newton, NC

Dwight Bailey  
United States Department of Energy, Atlanta, GA

Devon Beaty  
DHEC Bureau of Air Quality, Columbia, SC

Kenny Bingham  
South Carolina Senate, Columbia, SC

Douglas Brown  
Hydrex, Waxhaw, NC

Greg Cagle  
Progress Energy Carolina, Raleigh, NC

John Dabels  
Homeowner, Charlotte, NC

Richard Dalla Mura  
113 Calhoun Street, Charleston, SC

Ed Duffy  
York Technical College, Rock Hill, SC

Bob Duke  
Solar Specialist, Greenville, SC

Jean-Paul Gouffray  
South Carolina Energy Office, Columbia, SC

Chuck Greene  
York Technical College, Rock Hill, SC

Jon Gregory  
York Technical College, Rock Hill, SC

Dell Isham  
South Carolina Sierra Club, Columbia, SC

Trish Jerman  
Sustainable Universities Initiative, USC, Columbia, SC

Jim Johnson  
JJ Wholesale Meats, North Charleston, SC

Michael Koman  
University of South Carolina, Columbia, SC

Bob Kosak  
York Technical College, Rock Hill, SC

Wes Lyles  
AIA/LTC Associates, Columbia, SC

Fletcher Mann  
Tablerock Technologies, Table Rock, SC

David Martin  
Star Energy, Melbourne, FL

Melinda Mathias  
DHEC, Columbia, SC

Tom Mayberry  
Homeowner, Walterboro, SC

Jeffrey Moorehouse, PE  
Columbia, SC

Garfield Moss  
Homeowner, Bluffton, SC

Tone Nichols  
Table Rock Technologies, Pickens, SC

Mitch Perkins  
South Carolina Energy Office, Columbia, SC

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## Residential Solar Initiative (RSI) for EarthCraft Homes

The South Carolina Energy Office has established a Residential Solar Initiative (RSI) for EarthCraft Homes to demonstrate and document the technical, and economic, and practical aspects of residential solar water heating systems in South Carolina.

The purposes of the RSI for EarthCraft Homes are to:

1. Promote the installation of solar domestic hot water systems in EarthCraft designed homes, through a \$1,000 cash award rebate to the builder for each home;
2. Establish 20 solar water heating systems installed in EarthCraft homes in the Greenville and Charleston areas (10 in each area, if possible);
3. Promote residential solar technology, economics, energy efficiencies, and other advantages to South Carolina homeowners;
4. Document and promote South Carolina builders and contractors who have demonstrated success and technical expertise for installation, operation, and maintenance of solar water heating systems in South Carolina; and
5. Identify and document key obstacles and solutions inherent in residential installation.

Homebuilders are eligible if they build an approved designed EarthCraft Home with a solar water heating system certified by the Solar Rating Certification Council or the Florida Solar Energy Center. Eligibility is confirmed with an approved Rebate Application from the South Carolina Energy Office.

For more information, visit [www.energy.sc.gov](http://www.energy.sc.gov). Click on Sustainability and Renewable Energy and follow the link to Residential Solar Initiative.

*Partners - Continued from Page 3*

Jess Reading  
Solar Heating Specialist, Blacksburg, SC

Bill Schmidt  
Homeowner, Johns Island, SC

James Schoolmeester  
Siefert & Associates, Charlotte, NC

Hans-Herman Seifert  
Siefert & Associates, Charlotte, NC

Dave Stubblefield  
SCI Energy Institute, Clemson, SC

*SC Million Solar Roofs Initiative*

## Power Technology Comes to Mississippi

Lectrique Solaire LLC has proven that PV grid power will stabilize, produce, and create a cleaner environment. They have developed a site located in Pearl River County, Mississippi that has the potential to generate approximately 100kw of power. That is enough to supply power for 80-90 homes.

The on-line grid photovoltaic system, which has been built over the past six months, consists of eight major paneled arrays. Each paneled array is ten feet tall, and stretches seventy feet long. Additionally, the system has an energy monitoring capability for recording various operational data required to manage the system, and useful for educational lesson plans directed for elementary through graduate level students.

The Mississippi Development Authority Energy Division provided technical assistance to help make this project a reality.

For more information, contact Mr. Jackie McKee, Mississippi Development Authority, Energy Division, PO Box 849, Jackson, MS 39205-0849, or call (601) 359-6600.



*Each paneled array is ten feet tall, and stretches seventy feet long.*

Allen Taylor  
LS3P Associates, Charleston, SC

Tim Thomas  
Advanced Solar Pro, Abbeville, SC

Bill Walters  
York Technical College, Rock Hill, SC

Linda Walters  
Homeowner, Camden, SC

Dan Whigham  
South Carolina Solar, Lancaster, SC

D'Juana Wilson  
South Carolina Energy Office, Columbia, SC

Bruce Wood  
EasySolar, Greenville, SC